

<p><b>95-237180/31</b></p> <p><b>002</b></p> <p><b>MITTUI TOATSU CHEM INC</b></p> <p><b>93.11.24 93JP-293004 (95.06.06) C07D 277/56, A01N 43/78</b></p> <p><b>New N-substd. 5-thiazole-carboxamide derivs. - used as herbicides, prep. from corresp. acid halide and 2-amino-biphenyl C95-109050</b></p>	<p><b>MTK 93.11.24</b></p> <p><b>*JP 07145156-A</b></p> <p><b>PREPARATION</b></p> <p>(I) are prep'd by reacting thiazolecarboxylic halides of formula (II) with 2-aminobiphenyl in a melt or in a solvent.</p>	<p style="text-align: center;">(II)</p> <p style="text-align: center;">(I)</p> <p style="text-align: center;">2-aminobiphenyl</p> <p style="text-align: center;">(I)</p>	<p><b>USE</b></p> <p>(I) are fungicides, effective against e.g. Botrytis cinerea, Sphaerotheca fuliginea, Erysiphe graminis, Sphaerotheca humuli.</p> <p>R=H or CH<sub>3</sub>.</p> <p>X=halogen.</p> <p> P 07145156-A+</p>
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EXAMPLE

A suspension of 4g 2-methyl-4-trifluoromethylthiazole-5-carboxylic acid in 50 ml toluene was treated with 4.74 g  $\text{PCl}_5$ , refluxed for 3 hrs. and evaprd. 30 ml THF tetrahydrofuran and 1.8g pyridine were added, then 3.56g 2-aminobiphenyl was added while stirring at room temp. The mixt. was stirred for 2 hrs., poured into water, washed, dried and conc. The prod. was purified to give 5.3g (73%) of N-(2-phenylphenyl)-2-methyl-4-trifluoromethylthiazole-5-carboxamide, m.pt. 121.6-122.8 °C. N-(2-Phenylphenyl)-4-trifluoromethylthiazole-5-carboxamide was also prep'd. (AB)  
(7pp0078DwgNo.0/0)

JP 07145156-A

**THIAZOLECARBOXYLIC ACID AMIDE DERIVATIVE AND AGRICULTURAL AND  
HORTICULTURAL GERMICIDE CONTAINING THE SAME AS ACTIVE  
COMPONENT****Publication number:** JP7145156**Publication date:** 1995-06-06**Inventor:** YOSHIKAWA YUKIHIRO; KAWASHIMA HIDEO;  
TOMITANI KANJI; YANASE YUJI; KISHI JUNRO**Applicant:** MITSUI TOATSU CHEMICALS**Classification:****- international:** C07D277/20; A01N43/78; C07D277/56; C07D277/00;  
A01N43/72; (IPC1-7): C07D277/56; A01N43/78**- european:****Application number:** JP19930293004 19931124**Priority number(s):** JP19930293004 19931124[Report a data error here](#)**Abstract of JP7145156**

**PURPOSE:** To obtain a new thiazolecarboxylic acid amide derivative having a preventive effect on e.g. gray mold and powdery mildew of a crop such as cucumber or tomato and Brown rust of wheat and useful as an agricultural and horticultural germicide, etc. **CONSTITUTION:** A compound of formula I (R is H or methyl), e.g. N-(2-phenylphenyl)-2-methyl-4-trifluoromethylthiazole-5-carboxylic acid amide. In addition, the compound of formula I is produced by reacting a thiazolecarboxylic acid halide of formula II (X is a halogen) with 2-aminobiphenyl in the presence of a base such as triethylamine in a solvent such as THF.

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